

ROOM ADDITION 2013 PRESCRIPTIVE ENERGY REQUIREMENTS(Climate Zone 12)

☐ ENVELOPE – Roof / Ceiling Assemblies

COMPONENT	ADDITION ≤ 400 ft ²	400 ft ² < ADDITION ≤ 700 ft ²	ADDITION > 700 ft ²
INSULATION	R-38	R-38	R-38
COOL ROOF ^{1,2}	Required ³ for pitch > 2:12	Required for pitch > 2:12	Required for pitch > 2:12
RADIANT BARRIER	Required	Required	Required

1. Not required on any low-sloped roof (pitch ≤ 2:12, or 9.5°)

2. Where cool roof is required, either 3-yr aged solar reflectance = 0.20 min & thermal emittance = 0.75 min OR SRI = 16 min

3. Cool roof is not required for additions ≤ 300 ft²

☐ ENVELOPE – Fenestration

COMPONENT	ADDITION ≤ 400 ft ²	400 ft ² < ADDITION ≤ 700 ft ²	ADDITION > 700 ft ²
ALLOWABLE TOTAL GLAZING AREA	Greater of 75 ft ² OR 30% of addition's CFA ⁴	Greater of 120 ft ² OR 25% of addition's CFA ⁴	Greater of 175 ft ² OR 20% of addition's CFA ⁴
ALLOWABLE TOTAL WEST FACING GLAZING AREA	60 ft ² max	60 ft ² max	Greater of 70 ft ² OR 5% of addition's CFA ⁴
U-Factor	0.32 max	0.32 max	0.32 max
SHGC ⁵	0.25 max	0.25 max	0.25 max

4. Conditioned Floor Area

5. Solar Heat Gain Coefficient

☐ ENVELOPE – Insulation

COMPONENT	ADDITION ≤ 400 ft ²	400 ft ² < ADDITION ≤ 700 ft ²	ADDITION > 700 ft ²
EXTERIOR WALL INSULATION	R-13 in 2x4 walls R-19 in 2x6 walls	R-13 in 2x4 walls R-19 in 2x6 walls	R-13 cavity + R-5 rigid OR R-15 cavity + R-4 rigid
RAISED FLOOR INSULATION	R-19	R-19	R-19
SLAB FLOOR INSULATION	Not Required	Not Required	Not Required

☐ MECHANICAL – HVAC

COMPONENT	ADDITION ≤ 400 ft ²	400 ft ² < ADDITION ≤ 700 ft ²	ADDITION > 700 ft ²
WHOLE HOUSE FAN (NIGHT TIME COOLING)	Not Required	Not Required	Not Required ⁶
WHOLE BUILDING FAN (INDOOR AIR QUALITY)	Not Required	Not Required	Not Required ⁷
ADDING SPACE ^{8,9} CONDITIONING SYSTEMS	All applicable Package A Requirements must be met	All applicable Package A Requirements must be met	All applicable Package A Requirements must be met
REPLACING SPACE ^{8,9} CONDITIONING SYSTEMS	All applicable Package A Requirements must be met	All applicable Package A Requirements must be met	All applicable Package A Requirements must be met
ALL NEW DUCTS	R-6 for ducts in unconditioned area, duct testing(Package A)	R-6 for ducts in unconditioned area, duct testing(Package A)	R-6 for ducts in unconditioned area, duct testing(Package A)
EXTEND DUCTS FROM EXISTING ¹⁰	R-6 for ducts in unconditioned area, duct testing if >40' new or replaced (see Package A)	R-6 for ducts in unconditioned area, duct testing if >40' new or replaced (see Package A)	R-6 for ducts in unconditioned area, duct testing if >40' new or replaced (see Package A)

6. Whole house fan is required for additions > 1000 ft², min 2 CFM / ft² of entire dwelling CFA, min 1 ft² free attic vent area / 375 WHF CFM

7. Whole building ventilation fan is required for additions > 1000 ft², ASHRAE 62.2 Section 4 for min airflow, use CFA of entire dwelling

8. For a typical residential split system, furnace AFUE = 0.80 min and AC SEER =13.0 min until 1/1/2015

9. A supplemental heating unit of max 2kW or 7000 Btu/Hr controlled by time-limiting device ≤ 30 minutes

10. Existing furnace and AC units do not need to meet current standard, but must be capable to heat addition to 68°F

☐ PLUMBING– 2nd WH allowed to serve addition if: ≤75,000 Btu(storage) or ≤200,000 Btu(instantaneous)

